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(71)Applicant : AGENCY OF IND SCIENCE & TECHNOL
NIPPON KAGAKU SANGYO KK

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(72)Inventor : KUMAGAI TOSHIYA
MANABE TAKAAKI
KONDO WAKICHI
MIZUTA SUSUMU
HAMAOKA AKIRA

(54) PRODUCTION OF SUPERCONDUCTOR

(57)Abstract:

PURPOSE: To produce the superconductor having good stability by preventing the reaction of a superconductive complex metal oxide and a base body at the time of producing this oxide.

CONSTITUTION: This process for production of the superconductor consists (A) calcining an inorg. film which is formed on the base material and consists of (1) barium carbonate, (2) rare earth metal oxide, (3) copper oxide, and (4) noble metal and/or the oxide thereof, at the temp. at which the reaction between this film and the base material does not substantially arise in an inert gaseous atmosphere of 51vol.% oxygen concn. or under a reduced pressure of 50.01atom (absolute pressure) oxygen partial pressure to bring the barium carbonate, the rare earth oxide and the copper oxide into reaction while removing carbon dioxide from the barium carbonate contained in this film, then (B) oxidizing the film by the molecular oxygen at the temp. at which the reaction of the resulted metal oxide film with the base material does not substantially arise, and (C) thereby forming the superconductor film constituted of the superconductive complex metal oxide consisting of the rare earth metal and the copper and the noble metal.

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